



Paint Crew⁺
Ultimate House Painting Tool™ **Plus**

Owner's manual

Read this manual for complete instructions

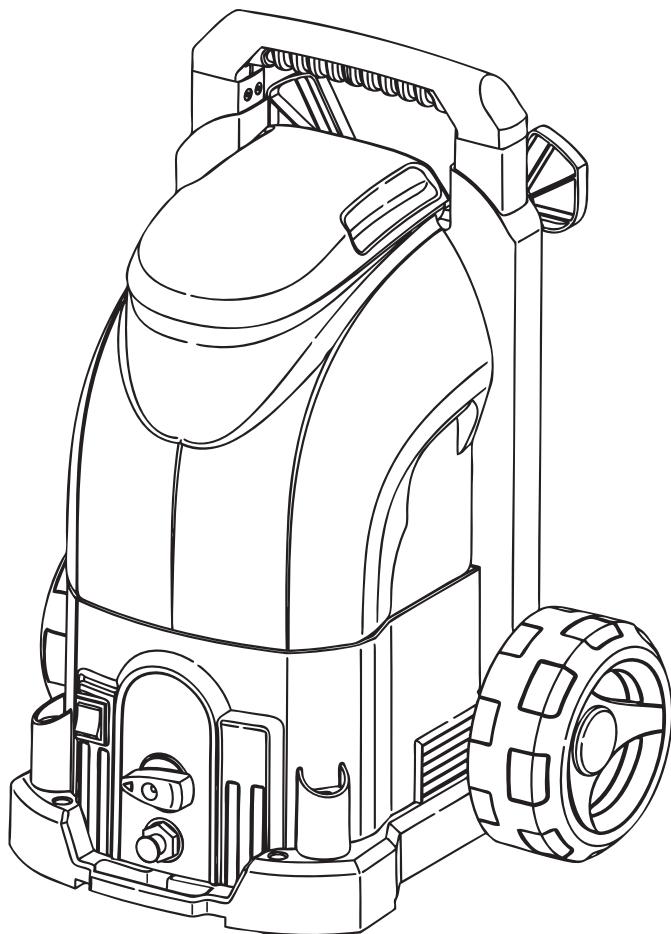


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1-800-328-8251

Wagner Technical Service

Visit us on the world wide web!

<http://www.wagnerspraytech.com>

1770 Fernbrook Lane, Plymouth, MN 55447

Need Help? Call us first for answers fast. Call Wagner Spray Tech toll-free if you have any comments or problems with this product.

Technical service hours: Monday through Friday, 8:00 am to 4:30 pm Central Time



Important Safety Information • Read all safety information before operating the equipment. Save these instructions

To reduce the risks of fire or explosion, electrical shock and the injury to persons, read and understand all instructions included in this manual. Be familiar with the controls and proper usage of the equipment.

! Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

HAZARD: INJECTION INJURY

A high pressure paint stream produced by this equipment can pierce the skin and underlying tissues, leading to serious injury and possible amputation. SEE A PHYSICIAN IMMEDIATELY.



DO NOT TREAT AN INJECTION INJURY AS A SIMPLE CUT!
Injection can lead to amputation. See a physician immediately.
The maximum operating range of the gun is 2800 PSI/193 BAR fluid pressure.

PREVENTION:

- NEVER aim the gun at any part of the body.
- Do not aim the gun at, or spray any person or animal.
- NEVER allow any part of the body to touch the fluid stream. DO NOT allow body to touch a leak in the fluid hose.
- NEVER put your hand in front of the gun. Gloves will not provide protection against an injection injury.
- ALWAYS lock the gun trigger, shut the pump off, and release all pressure before servicing, cleaning the tip or guard, changing tip, or leaving unattended. Pressure will not be released by turning off the motor. The PRIME/SPRAY knob must be turned to PRIME to relieve the pressure. Refer to the [Pressure Relief Procedure \(page 7\)](#) described in the pump manual.
- ALWAYS keep the tip guard in place while spraying. The tip guard provides some protection but is mainly a warning device.
- ALWAYS remove the spray tip before flushing or cleaning the system.
- Paint hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin. Inspect the hose before each use. Do not use hose to lift or pull equipment.
- NEVER use a spray gun without a working trigger lock and trigger guard in place.
- All accessories must be rated at or above 2800 PSI/193 BAR. This includes spray tips, guns, extensions, and hose.

NOTE TO PHYSICIAN:

Injection into the skin is a traumatic injury. It is important to treat the injury as soon as possible. DO NOT delay treatment to research toxicity. Toxicity is a concern with some coatings injected directly into the blood stream. Consultation with a plastic surgeon or reconstructive hand surgeon may be advisable.

HAZARD: HAZARDOUS VAPORS

Paints, solvents, insecticides, and other materials can be harmful if inhaled or come in contact with the body. Vapors can cause severe nausea, fainting, or poisoning.



PREVENTION:

- Use a respirator or mask if vapors can be inhaled. Read all instructions supplied with the mask to be sure it will provide the necessary protection.
- Wear protective eyewear.
- Wear protective clothing as required by coating manufacturer.



HAZARD: EXPLOSION OR FIRE

Solvent and paint fumes can explode or ignite. Property damage and/or severe injury can occur.



PREVENTION:

- Provide extensive exhaust and fresh air introduction to keep the air within the spray area free from accumulation of flammable vapors. Solvent and paint fumes can explode or ignite.
- Do not spray in a confined area.
- Avoid all ignition sources such as static electric sparks, open flames, pilot lights, electrical appliances, and hot objects. Connecting or disconnecting power cords or working light switches can make sparks. Paint or solvent flowing through the equipment is able to result in static electricity.
- Do not smoke in spray area.
- Fire extinguisher must be present and in good working order.
- Place paint pump in a well-ventilated area away from the spray object. Flammable vapors are often heavier than air. Floor area must be extremely well ventilated.
- The equipment and objects in and around the spray area must be properly grounded to prevent static sparks.
- Keep area clean and free of paint or solvent containers, rags and other flammable materials.
- Use only conductive or grounded high pressure fluid hose. Gun must be grounded through hose connections.
- Power cord must be connected to a grounded circuit.
- Always flush unit into a separate metal container, at low pump pressure, with spray tip removed. Hold gun firmly against side of container to ground container and prevent static sparks.
- Follow the material and solvent manufacturer's warnings and instructions. Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvent manufacturer's safety instructions.
- This product may be used only with water-based materials or materials with a minimum flash point of 70°F (21°C) for spraying or cleaning. Do not spray or clean with materials having a flash point less than 70°F (21°C), such as solvent based lacquers, enamels, and/or stain blockers. Flash point is the temperature at which a fluid can produce enough vapors to ignite.
- Plastic can cause static sparks. Never hang plastic to enclose a spray area. Do not use plastic drop cloths when spraying flammable materials.
- Use lowest possible pressure to flush equipment.
- Do not spray onto pump assembly.



HAZARD: EXPLOSION HAZARD DUE TO INCOMPATIBLE MATERIALS

Will cause property damage or severe injury.



PREVENTION:

- Do not use materials containing bleach or chlorine.
- Do not use halogenated hydrocarbon solvents such as bleach, mildewcide, methylene chloride and 1,1,1 - trichloroethane. They are not compatible with aluminum.
- Contact your coating supplier about the compatibility of material with aluminum.



Important Safety Information • Read all safety information before operating the equipment. Save these instructions

HAZARD: GENERAL

Can cause severe injury or property damage.

PREVENTION:

- Read all instructions and safety precautions before operating equipment.
- Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.
- The United States Government Safety Standards have been adopted under the Occupational Safety and Health Act (OSHA). These standards, particularly part 1910 of the General Standards and part 1926 of the Construction Standards should be consulted.
- Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety requirements of the pump manufacturer.
- Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace the hose if any of these conditions exist. Never repair a paint hose. Replace it with another grounded high-pressure hose.
- All hoses and fittings must be secured before operating spray pump. Unsecured parts can eject at great force or leak a high pressure fluid stream causing severe injury.
- All hoses, swivels, guns, and accessories must be pressure rated at or above 2800 PSI/193 BAR.
- Do not spray outdoors on windy days.
- Wear clothing to keep paint off skin and hair.
- Do not operate or spray near children. Keep children away from the equipment at all times.
- Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
- Stay alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.

Important Electrical Information

NOTICE

Use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the product. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A 14 or 12 gauge cord is recommended (see chart below). If an extension cord is to be used outdoors, it must be marked with the suffix W-A after the cord type designation. For example, a designation of SJTW-A would indicate that the cord would be appropriate for outdoor use.

Minimum gauge for extension cords										
Ampere rating range	Voltage	Cord length (feet)								
		25	50	100	150	200	250	300	400	500
5 - 6	120V	18	16	14	12	10	10	8	8	6

Do not use more than 50 feet of spray hose. If you need to spray further than 50 feet from your power source, use more extension cord, not more spray hose.

Grounding Instructions

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.



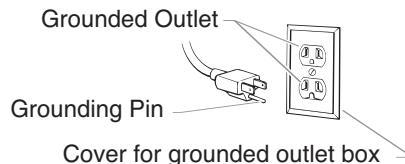
Improper installation of the grounding plug can result in a risk of electric shock.



If repair or replacement of the cord or plug is necessary, do not connect the green grounding wire to either flat blade terminal. The wire with insulation having a green outer surface with or without yellow stripes is the grounding wire and must be connected to the grounding pin.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.

This product is for use on a nominal 120 volt circuit and has a grounding plug that looks like the plug illustrated below. Make sure that the product is connected to an outlet having the same configuration as the plug. **No adapter should be used with this product.**



If you experience problems with your sprayer at any time during assembly, operation, or cleanup, please refer to the [Troubleshooting](#) section of this manual (page 17), or call customer service at:

1-800-328-8251

Components and Description

Components	Tools Needed for Assembly
<p>The shipping carton for your painting system contains the following:</p> <ul style="list-style-type: none">• Spray gun with filter and spray tip assembly• 25', 1/4" diameter pressure hose• Instruction manual• One axle, two axle plates and four screws• Two wheel assemblies• One inlet valve pusher tool*• Combination push nut / inlet valve removal tool* <p>*Do not discard. Stored in sprayer base.</p>	<ul style="list-style-type: none">• Two adjustable wrenches• Phillips screwdriver• Extension cord (refer to Important Electrical Information (page 3)).• Rubber or wooden mallet

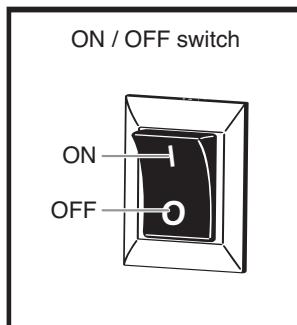
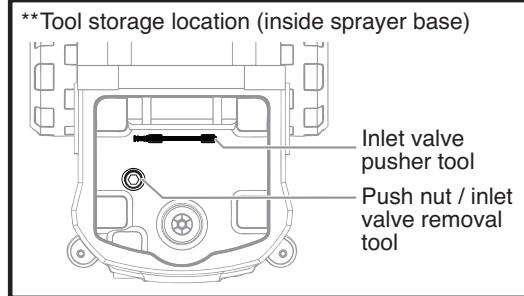
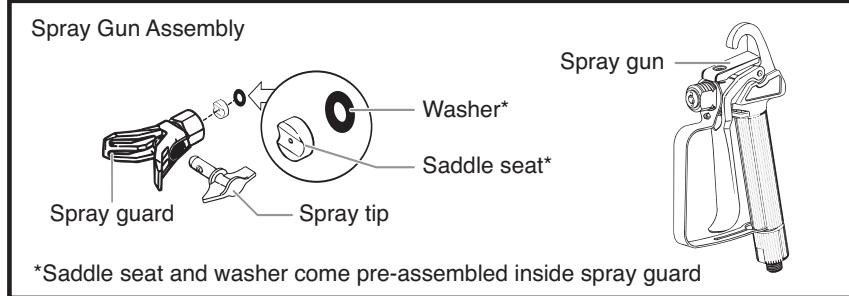
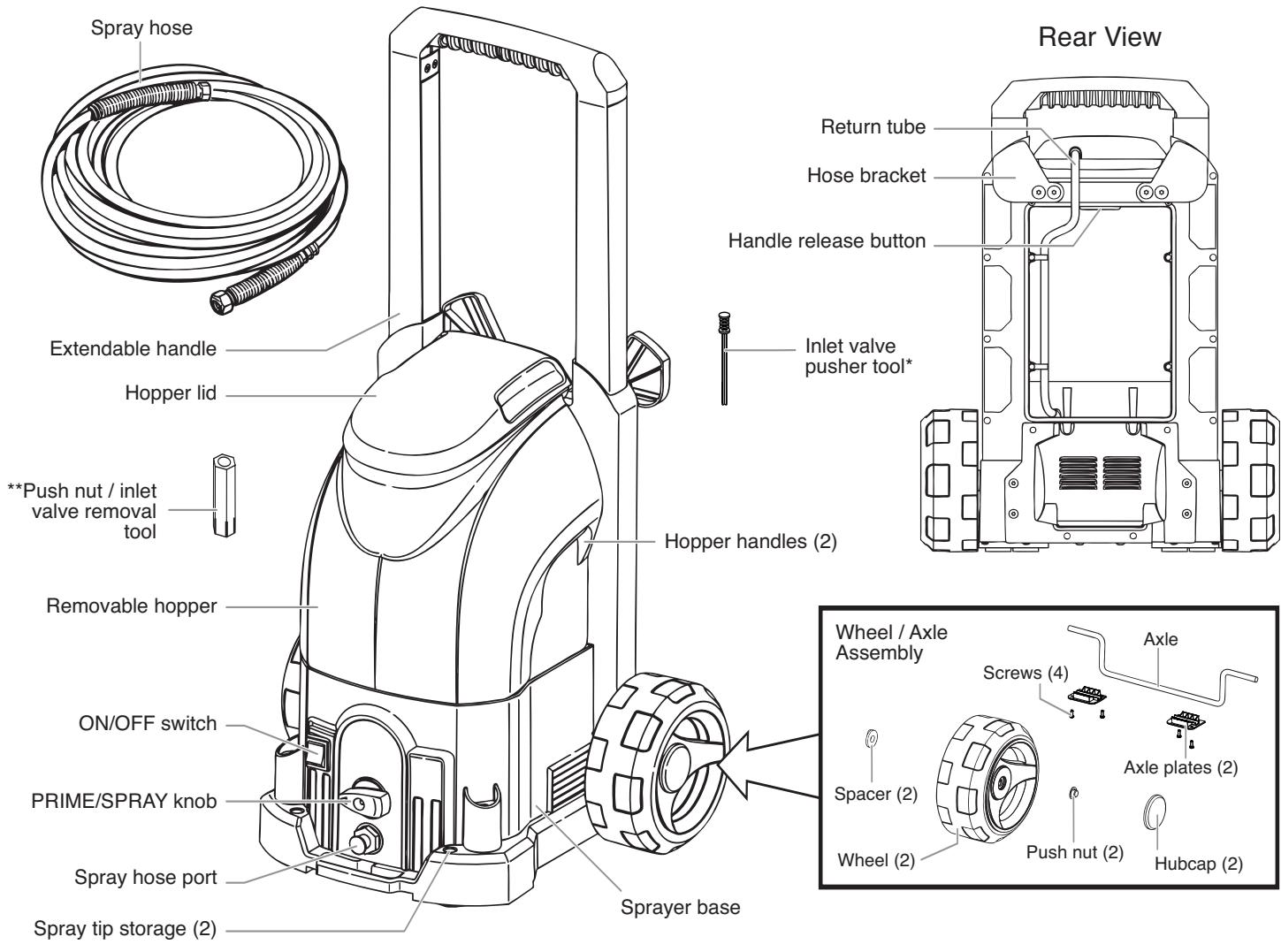
Controls and Functions

ON/OFF Switch	The ON/OFF switch turns the power to the sprayer on and off (O=OFF, I=ON).
Spray Gun	The spray gun controls the delivery of the fluid being pumped.
Spray Hose	The spray hose connects the gun to the pump.
Return Tube	Fluid is sent back out through the return tube to the hopper when PRIME/SPRAY knob is in PRIME position.
PRIME/SPRAY Knob	The PRIME/SPRAY knob directs fluid to the spray hose when set to SPRAY or the return tube when set to PRIME. The arrows on the PRIME/SPRAY knob shows the rotation directions for PRIME and SPRAY. The PRIME/SPRAY knob is also used to relieve pressure built up in the system (see Pressure Relief Procedure , page 7).
Pressure Control	The pressure control function is also controlled by the PRIME/SPRAY knob. See next page for diagram. The pressure control regulates the amount of force the pump uses to push the fluid and can be adjusted for desired spray pattern.
Removable Hopper	The hopper can be removed for easy emptying and cleaning. It can be removed when empty or when filled with material. Do not exceed 2 1/2 gallons. The hopper lid does not seal and material can leak if hopper is overfilled and tipped.

Specifications

Capacity	2 1/2 gallon removable hopper.
Power Source	1/2 Hp universal motor.
Power Requirement	15 amp minimum circuit on 115 VAC, 60 Hz current.
Generator Requirement	8000 Watt.
Safety Features	Spray gun trigger lock and pressure diffuser; built-in safety guard; PRIME/SPRAY knob for safe pressure release.
Capability	Sprays a variety of paints, oil base latex, primers, stains, preservatives and other nonabrasive materials, including pesticides and liquid fertilizers. This pump should not be used with textured materials, block filler, lacquers, industrial enamels, or asphalt sealer or materials containing HHC. See coating supplier if flash point is not listed on the container.

Components and Description



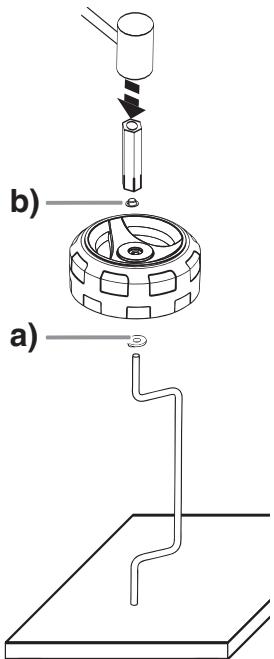
Assembly



Do not plug in the power cord until assembly is complete.

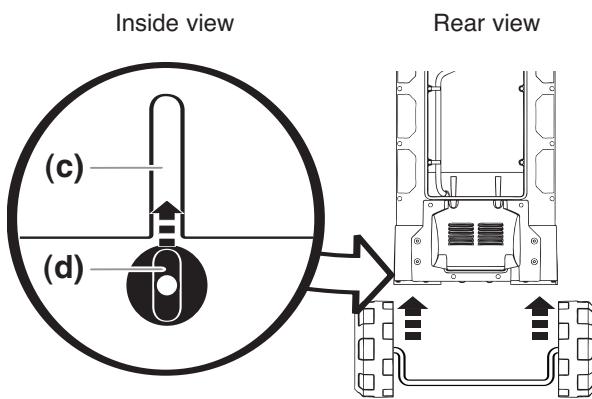
1. Slide all parts of the wheel assembly over the end of the axle in the order shown.

Make sure the spacer (a) is oriented so the lipped side will be flush inside the axle slot (c, at right). Lightly tap the push nut tool with a mallet to secure the push nut (b) over the end of the axle. Repeat steps for other wheel.



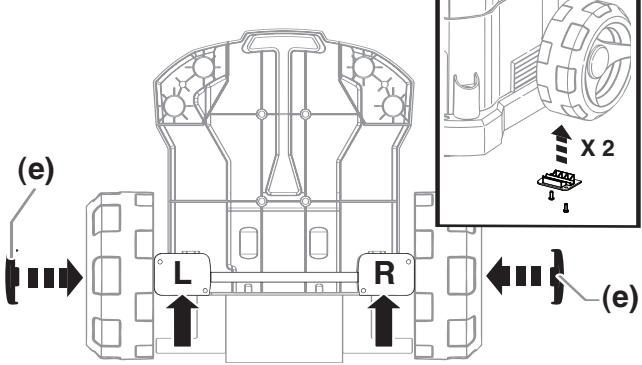
NOTE - You will need to stand the axle vertically on a flat and stable surface to assemble the wheels.

2. Slide both ends of the axle up into the slots as shown (c). The lipped side of the spacers (d) should go inside of the axle slots.



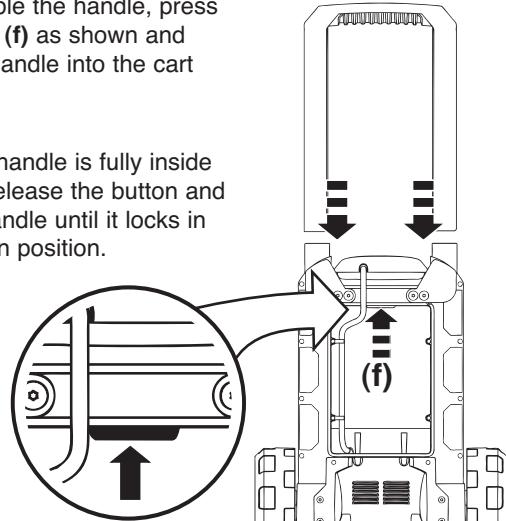
3. Make sure each axle plate is oriented and located as shown (L and R). Secure each plate with two (2) screws. Snap the wheel caps (e) over the ends of the push nuts.

Underside of unit

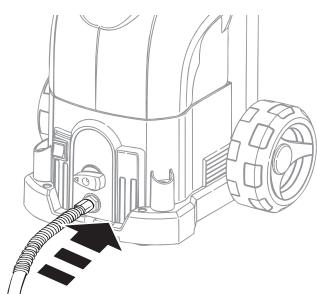


4. To assemble the handle, press the button (f) as shown and slide the handle into the cart assembly.

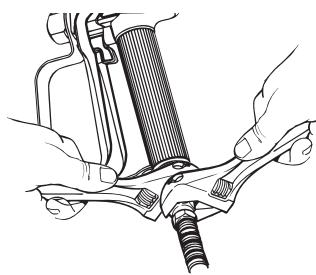
Once the handle is fully inside the cart, release the button and pull the handle until it locks in up or down position.



5. Thread one end of the high pressure spray hose to the spray hose port. Tighten with an adjustable wrench.



6. Thread the other end of the hose to the spray gun. Hold the gun with one adjustable wrench and tighten the hose nut with the other.



Before you begin -

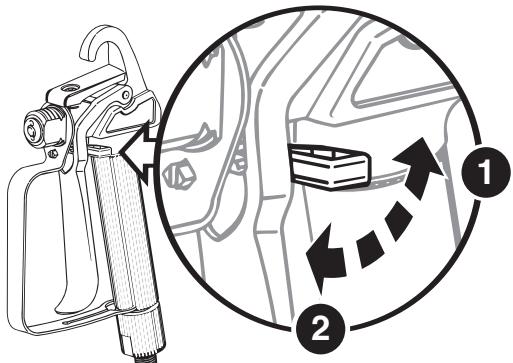
This section contains instructions that will be repeated throughout this manual.

Locking / Unlocking the Spray Gun



Always lock the trigger off when attaching the spray tip or when the spray gun is not in use.

1. The gun is secured when the trigger lock is at a 90° angle (perpendicular) to the trigger in either direction.
2. To unlock the gun, turn the trigger lock to be in line with the trigger.

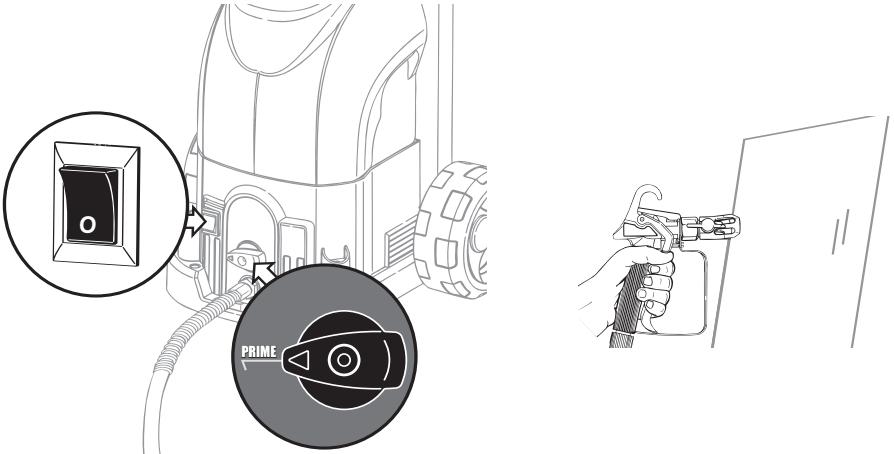


Pressure Relief Procedure



Be sure to follow the Pressure Relief Procedure when shutting the unit off for any purpose. This procedure is used to relieve pressure from the spray hose.

1. Lock the spray gun off (see directions above). Flip the ON/OFF switch to the OFF position.
2. Turn the PRIME/SPRAY knob to PRIME.
3. Unlock the spray gun. Trigger spray gun onto a scrap piece of wood or cardboard.



Removing / Emptying the Hopper

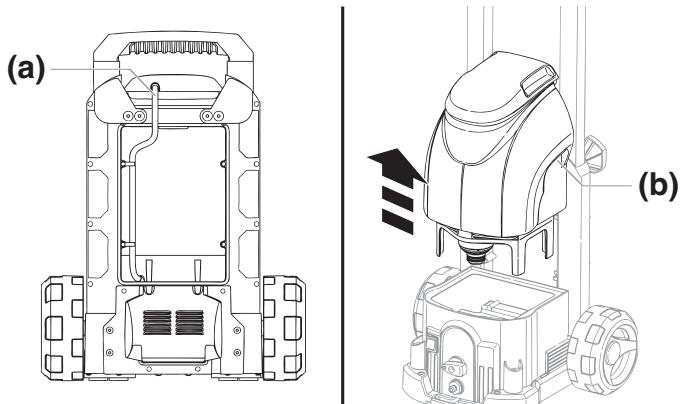
NOTE - Make sure your floors and furnishings are protected with drop cloths to avoid property damage.

NOTE - Always place the hopper on a hard, flat, stable surface when removed.

1. Perform **Pressure Relief Procedure** (see above).
2. Pull the return tube (a) from the rear of the hopper lid.
3. Grab hopper by the side handles (b) and gently pull it out.
4. When finished emptying / cleaning, replace hopper and hopper lid.
5. Replace the return tube by inserting it through the notch in the hopper lid.



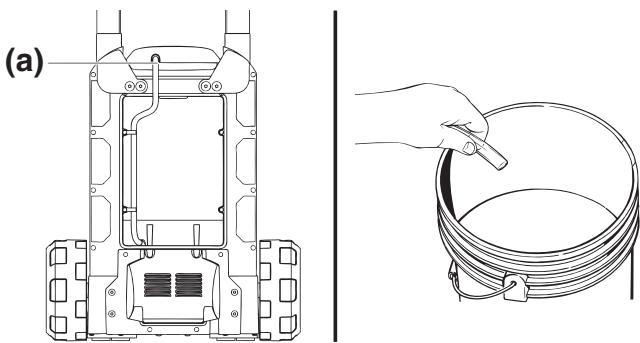
The hopper can be heavy when filled with spraying material. Make sure to lift with your legs and not your back in order to reduce the risk of injury.



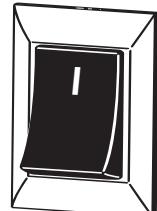
Purging and Priming the Sprayer

All new units are performance-tested at the factory and are shipped with test fluid in the fluid section to prevent corrosion during shipment and storage. If you have already used your pump, some water or solvent used in cleaning may remain in the fluid section. Whether your sprayer is new or if you have already used it, this fluid must be purged and thoroughly cleaned out of the system prior to use. Follow the steps below.

1. Pull the return tube (a) from the hopper and hold it over a waste container.

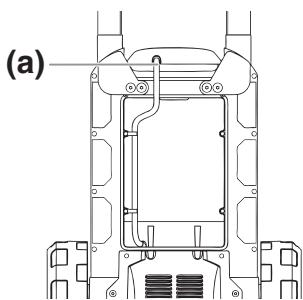


2. Turn the PRIME/SPRAY knob to PRIME. Plug in the sprayer. Turn the ON/OFF switch to ON (I).

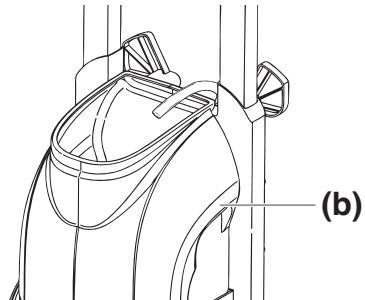


Any fluids remaining in the pump and the return tube will flow out of the return tube. Let the pump run until no fluid is coming from the return tube.

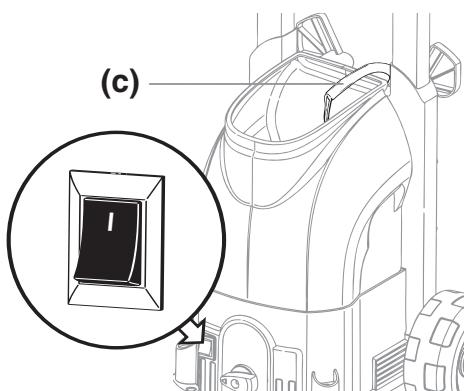
3. Switch the pump to OFF. Remove the return tube from the waste container and insert it into the notch in the hopper lid (a).



4. Remove hopper lid. Fill your hopper with the material you plan to spray. **Do not exceed 2 1/2 gallons (b).**

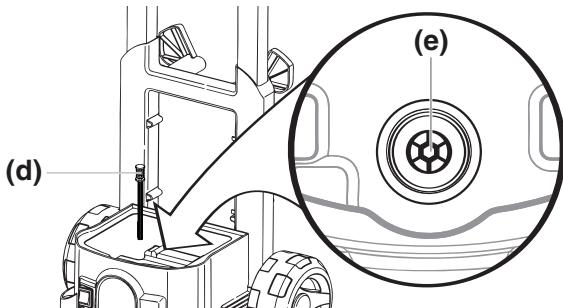


5. Switch your unit ON once more and make sure that material is flowing from the return tube (c). Turn pump OFF and replace the hopper lid.



If spray material does not flow from the return tube, the inlet valve may be stuck. Follow these steps.

1. Shut the unit OFF and unplug.
2. Carefully remove the hopper. Clean the connecting areas on the hopper and the unit.
3. Insert the inlet pusher tool (d) into the center of the inlet valve area (e). This should release the inlet valve and allow spraying material to flow through the return tube.
4. Replace hopper and return tube and resume.

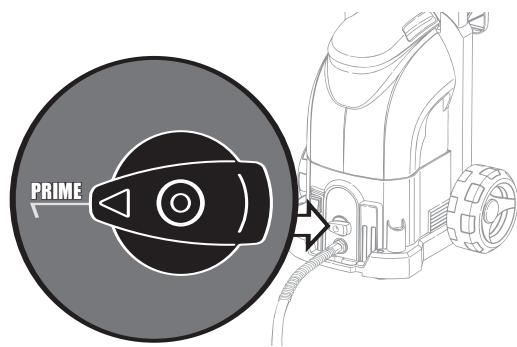


Purging and Priming the Spray Hose

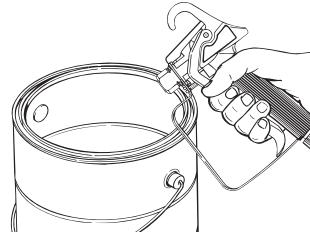


The spray tip **SHOULD NOT** be attached to the spray gun when purging the spray hose. Failure to comply could result in an injection injury.

1. Unlock the spray gun and make sure PRIME/SPRAY knob is set to PRIME.



2. Pull the trigger and aim the spray gun at the side wall of a waste container. **If using oil-based materials, the spray gun must be grounded while purging (see warning below).**



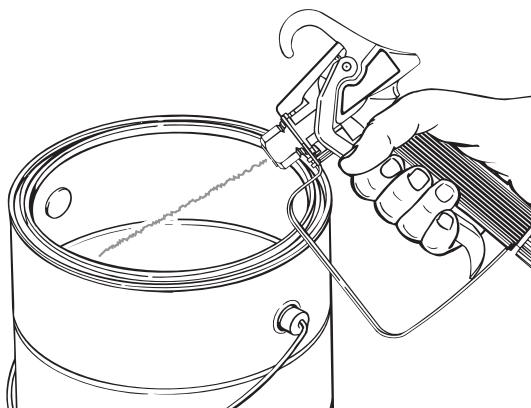
Ground the gun by holding it against the edge of a metal container while purging. Failure to do so may lead to a static electric discharge which may cause a fire.

Keep hands clear from fluid stream.

3. While pulling the trigger, switch the pump ON (I), **AND** turn the PRIME/SPRAY knob to SPRAY - MINIMUM PRESSURE. **Hold the trigger until all air, water, or solvent is purged from the spray hose and material is flowing freely.**



Whenever the PRIME/SPRAY knob is still on SPRAY, there will be high pressure in the hose and spray gun until the PRIME/SPRAY knob is turned to PRIME.

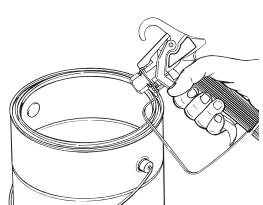
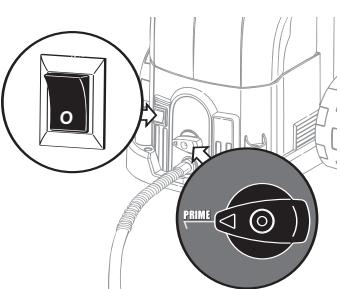


4. Release trigger.

Turn the PRIME/SPRAY knob to PRIME.

Turn the pump OFF (O).

Trigger the gun into the waste container to be sure that no pressure is left in the hose.



5. Lock the spray gun off. **Make sure the saddle and black seal are in place inside the tip guard nut (see [Components and Description, page 5](#)).** Thread the spray tip guard assembly onto the gun. Tighten by hand.



Practice / Spraying Technique

NOTE - Be sure that the paint hose is free of kinks and clear of objects with sharp cutting edges.

1. Switch the pump ON (I).
 - a. If you are spraying thicker materials, turn the PRIME/SPRAY knob to SPRAY - MAXIMUM PRESSURE.
 - b. If you are spraying thinner or lighter bodied materials, turn the PRIME/SPRAY knob to SPRAY - MINIMUM PRESSURE.

The spray hose should stiffen as paint begins to flow through it.

Thicker materials



Thinner materials



2. When motor shuts off, unlock the spray gun and spray a test area to check the spray pattern.

The motor will cycle on and off automatically as it needs pressure.

Good spray pattern

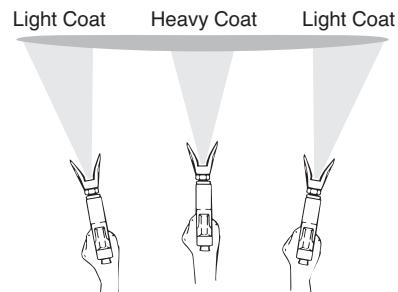


Paint tailing pattern (pressure too low, clogged tip)

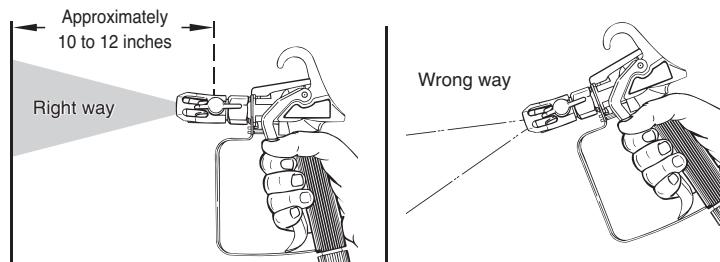


The key to a good job is an even coating over the entire surface. This is done by using even strokes. Follow the TIPS, below.

Tip: Keep the spray gun at right angles to the surface. This means moving your entire arm back and forth rather than just flexing your wrist.

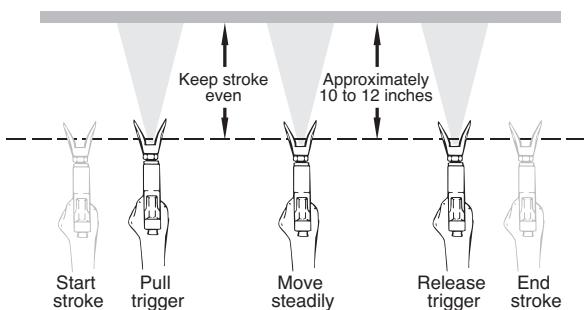


Tip: Keep the spray gun perpendicular to the surface, otherwise one end of the pattern will be thicker than the other.



Tip: Trigger gun after starting the stroke. Release the trigger before ending the stroke. The spray gun should be moving when the trigger is pulled and released. **Overlap each stroke by about 30%. This will ensure an even coating.**

If you expect to be away from your sprayer for more than one hour, follow the [Short-Term Storage](#) instructions (page 15).



Spraying Troubleshooting - Unclogging the Spray Tip

If the spray pattern becomes distorted or stops completely while the gun is triggered, follow these steps.

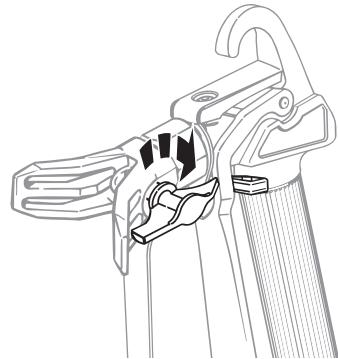


Do not attempt to unclog or clean the tip with your finger. High pressure fluid can cause injection injury.

NOTE - Do not use a needle or other sharp pointed instrument to clean the tip. The hard tungsten carbide can chip.

1. Release the trigger and lock the gun off (see page 7). Rotate the reversible tip arrow 180° so that the point of the arrow is toward the rear of the gun (CLEAN position).

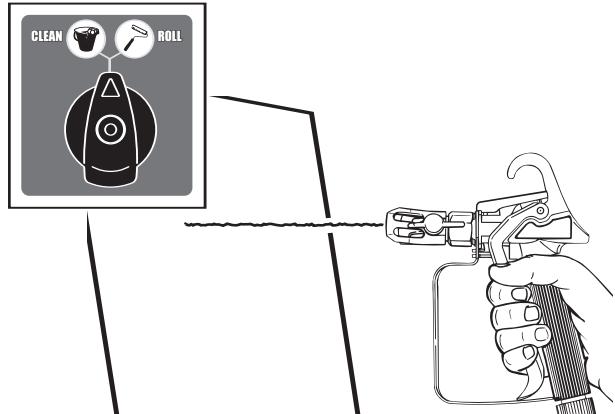
Under pressure, the spray tip may be very difficult to turn. Turn the PRIME/SPRAY knob to PRIME and trigger the gun. This will relieve pressure and the tip will turn more easily.



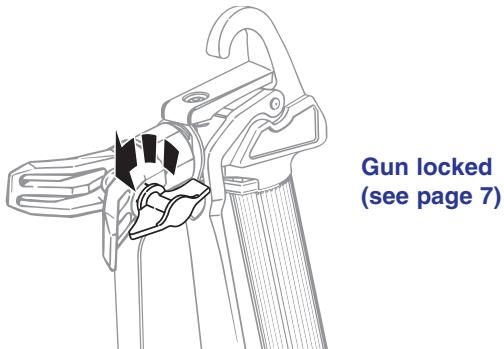
2. Turn the PRIME/SPRAY knob to SPRAY - MINIMUM PRESSURE.

3. Unlock the gun and squeeze the trigger, pointing the gun at a scrap piece of wood or cardboard. This allows pressure in the spray hose to blow out the obstruction. When the nozzle is clean, material will come out in a straight, high pressure stream.

If material still will not spray from the spray tip, follow the [Cleaning the Spray Gun Filter](#) instructions, page 12.



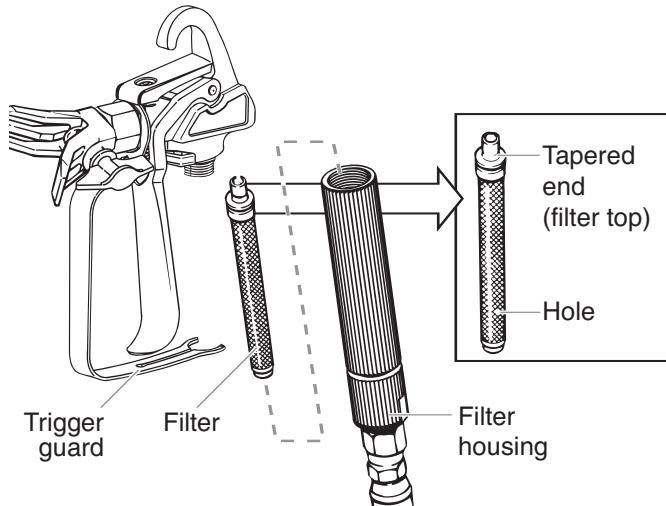
4. Release the trigger and lock the gun off (see page 7). Reverse the tip so the arrow points forward again (SPRAY position). Unlock the gun and resume spraying.



Spraying Troubleshooting - Cleaning the Spray Gun Filter

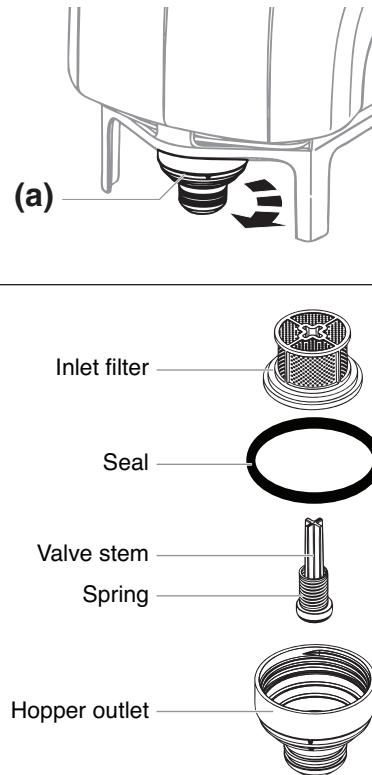
The filter must be cleaned every time you use your sprayer. When using thicker spray materials, the filter might need to be cleaned more often.

1. Perform [Pressure Relief Procedure](#), page 7.
2. Unclip the trigger guard from the filter housing by pulling outward from the filter housing. Unscrew the filter housing.
3. Remove the filter from the spray gun housing and clean with the appropriate cleaning solution (warm, soapy water for latex paints, mineral spirits for oil-based materials).
4. Inspect the filter for holes (see inset). Replace if holes are found.
NOTE - NEVER POKE THE FILTER WITH A SHARP INSTRUMENT!
5. Replace the cleaned filter, tapered end first, into the gun housing. **The tapered end of the filter must be loaded properly into the gun. Improper assembly will result in a plugged tip or no flow from the gun.**
6. Reassemble the spray gun.



Spraying Troubleshooting - Cleaning the Inlet Filter

1. Perform [Pressure Relief Procedure](#), page 7.
2. Empty the hopper of all spraying material (see [Emptying the Hopper](#), page 7). Clean any remaining material residue inside the hopper with the appropriate cleaning solution. The hopper must be completely dry.
3. Unscrew the hopper outlet (a). The valve stem, spring and inlet filter will come out with the hopper outlet. Remove the inlet filter from the hopper outlet, being careful not to lose the spring or stem.
4. Clean the inlet filter using the appropriate cleaning solution (warm, soapy water with latex paints, mineral spirits with oil-based paints or stains).
5. Place inlet filter back over the valve stem and into the hopper outlet. Thread hopper outlet back into the bottom of the hopper.



If after having completed all of the steps on this page you are still experiencing problems spraying, refer to the [Troubleshooting page](#) (page 17).

Cleanup

Important Cleaning Notes - Read before cleaning

- When using latex materials, clean your sprayer and components with water. When using oil-based materials, use mineral spirits. DO NOT use gasoline to clean your sprayer.
- Do not use mineral spirits on latex materials, or the mixture will turn into a jelly-like substance which is difficult to remove.
- No matter which cleaning solution you use, make sure to dispose of it properly when finished cleaning your sprayer.
- Thorough cleaning and lubrication of the sprayer is the most important step you can take to ensure proper operation after storage.

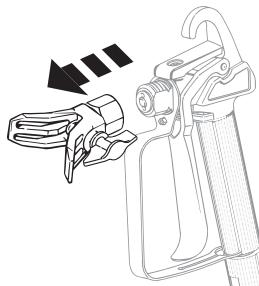


Follow these steps whenever cleaning with mineral spirits:

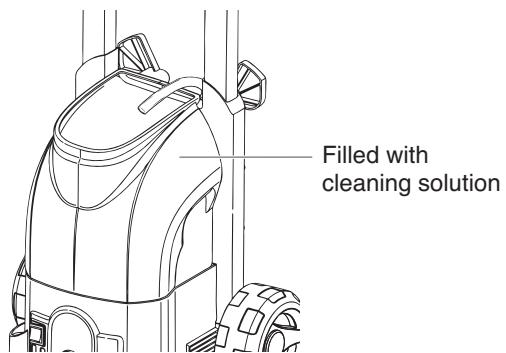
- Always flush spray gun at least one hose length away from spray pump.
- If collecting flushed solvents in one gallon metal container, place it into an empty five gallon container, then flush.
- Area must be free from vapors.
- Follow all cleanup instructions.
- DO NOT use gasoline to clean your sprayer.

1. Perform [Pressure Relief Procedure](#) (page 7).
2. Empty the hopper of spraying material (see [Emptying the Hopper](#), page 7).

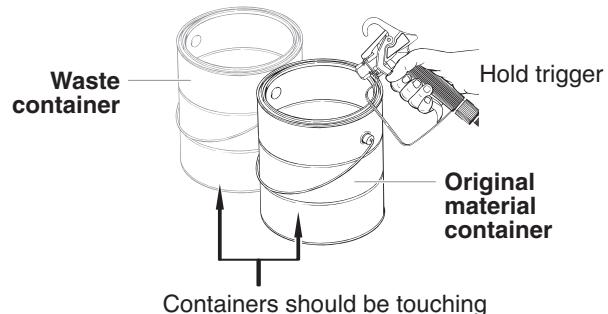
3. While removed, rinse the hopper with the appropriate cleaning solution until clean.
4. Remove spray tip from gun.



5. Replace the hopper and return tube. Fill the hopper with appropriate cleaning solution.

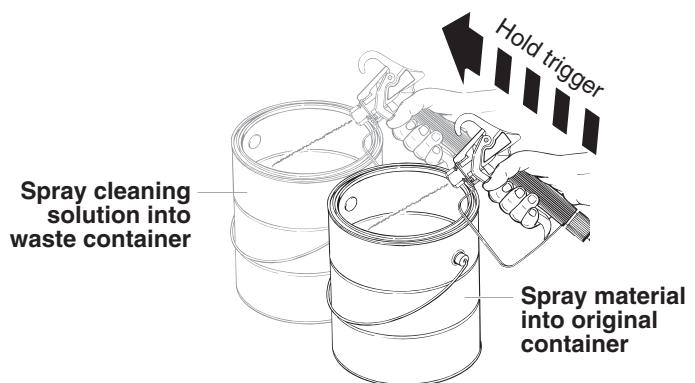


6. Place a **waste container** next to the **original material container**. The containers should be touching.
7. Aim the spray gun into the side of the **original material container** and hold the trigger.
8. While holding the trigger, turn the pump ON (I) and turn the PRIME/SPRAY knob to SPRAY - MINIMUM PRESSURE to purge spraying material from the hose back into the original container.



9. When cleaning solution comes from the spray gun, keep holding the trigger and aim the spray gun into the side of the waste container (**ground gun with a metal container if flushing with flammable solvent**).
10. Trigger the gun until the fluid coming out of the gun is clear. You may need to dispose and obtain new cleaning solution.
11. Perform [Pressure Relief Procedure](#), page 7.

Cleanup steps continued on next page.



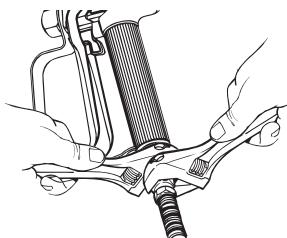
Cleanup (continued)

12. If hopper is empty of all cleaning solution, refill with new cleaning solution.
13. Turn the PRIME/SPRAY knob to PRIME, and turn the pump ON.
14. Let the pump circulate the cleaning solution out the return tube for 2-3 minutes. Turn the pump OFF.
15. Remove and thoroughly rinse the hopper once more.
16. Remove and clean the inlet filter (see [Cleaning the Inlet Filter](#), page 12). Replace the filter when clean.
17. Replace the hopper for storage.

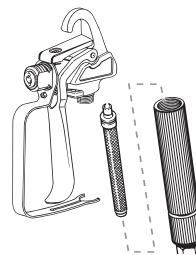
NOTE - If you cleaned your pump using mineral spirits, it is necessary that you flush the pump again using warm, soapy water to prepare it for storage. Repeat ALL Cleanup steps.

Cleaning the Spray Gun Components

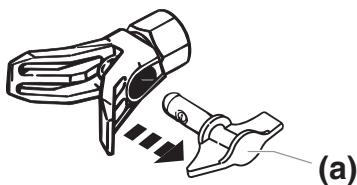
1. Perform [Pressure Relief Procedure](#), page 7. Remove spray gun from the paint hose using adjustable wrenches.



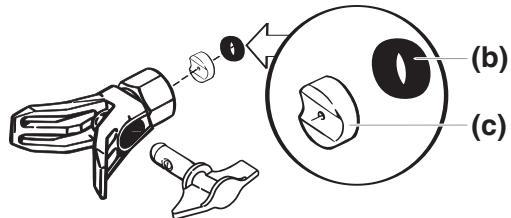
2. Remove filter from spray gun (refer to [Cleaning the Spray Gun Filter](#), page 12).



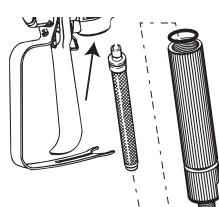
3. Remove spray tip (a) from spray guard assembly.



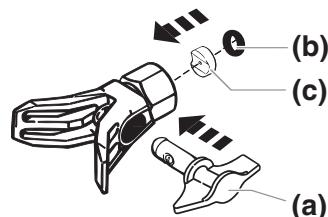
4. Remove washer (b) and saddle seat (c) located in the rear of the spray tip assembly. Clean all parts with a soft-bristled brush and the appropriate cleaning solution.



5. Pour a few drops of household oil inside the gun housing (see area indicated below by arrow).



6. Reassemble spray gun. Install gun filter tapered-end first, and install spray tip (a), saddle seat (c) and washer (b). Replace the filter housing and spray guard assembly.

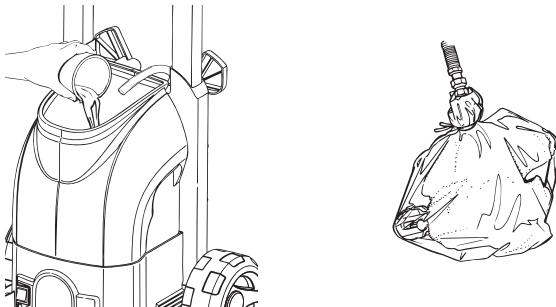


Short-Term Storage (up to 16 hours)

Follow these steps when using latex materials only. If using materials that are oil-based, follow the [Cleanup](#) and [Long-Term Storage](#) steps.

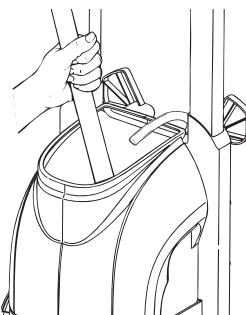
Shutdown

1. Perform [Pressure Relief Procedure](#), page 7. Unplug the sprayer.
2. Pour 1/2 cup water slowly on the top of the paint to prevent the paint from drying.
3. Wrap the spray gun assembly in a damp cloth and place it in a plastic bag. Seal the bag shut. Place the sprayer in a safe place out of the sun for short-term storage.



Startup

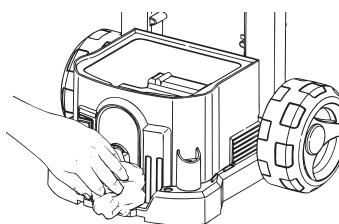
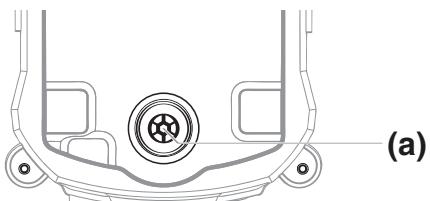
1. Remove the gun from the plastic bag. Stir the water into the paint.
2. Turn the PRIME/SPRAY knob to PRIME. Plug sprayer in. Turn the switch to ON (I).
3. Turn the PRIME/SPRAY knob to SPRAY - MAXIMUM PRESSURE. Test the sprayer on a practice piece and begin spraying.



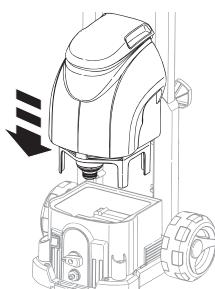
Long-Term Storage

Make sure you have already completed the [Cleanup](#) steps on pages 13-14.

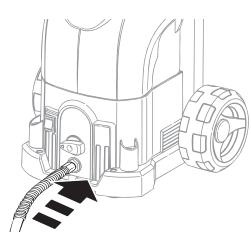
1. Remove hopper. Pour approximately two ounces of light household oil into the inlet valve (a).
2. Remove hose from spray hose port. Place a rag over the spray hose port, and turn the switch ON (I). Let the unit run for five seconds. Turn the pump OFF (O).



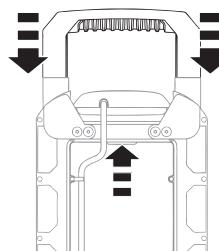
3. Replace the hopper.



4. Wipe entire unit, hose and gun with a damp cloth to remove accumulated paint. Replace the spray hose.



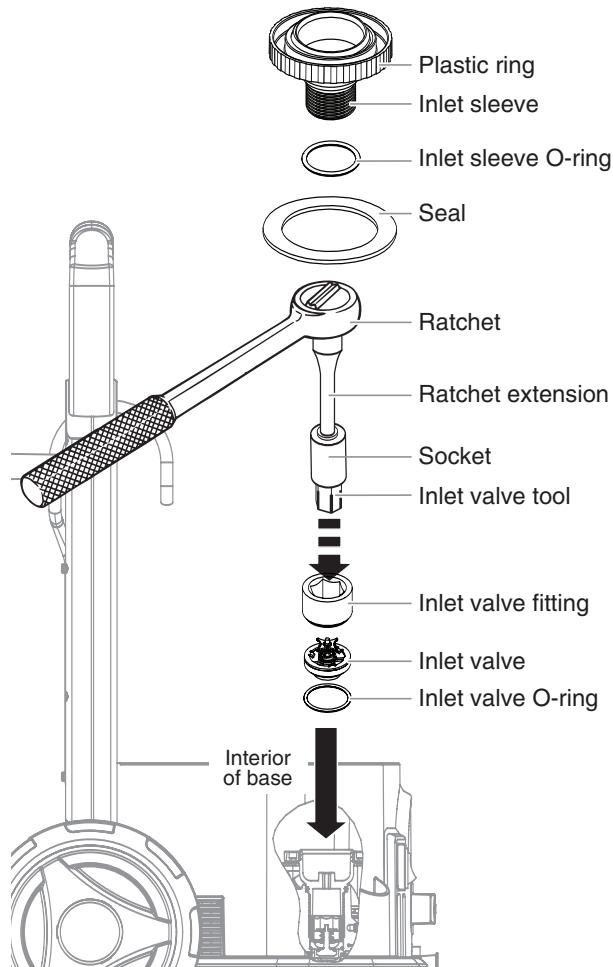
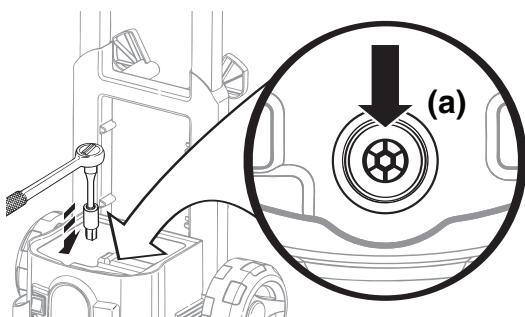
5. Push handle lock button to collapse the handle.



Servicing the Inlet Valve

Cleaning or replacing the inlet valve may be required if the unit has priming problems. This may be caused by improper cleaning and/or storage. Replacement kits may be ordered by calling customer service (1-800-328-8251).

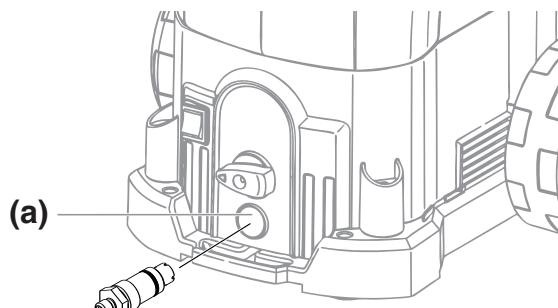
1. Remove the hopper. Insert the the inlet valve tool into the inlet valve area (a).
2. Twist counter-clockwise and remove inlet sleeve and plastic ring from its housing. **You will need to attach the inlet valve tool to a ratchet wrench extension with a 5/8" socket in order to remove it.**
3. Inspect the threads on the inlet sleeve and the inlet sleeve O-ring. Remove any accumulated paint.
4. Insert the inlet valve tool into the inlet valve fitting. **Using the ratchet and socket**, twist counter-clockwise and remove from its housing.
5. Retrieve the inlet valve and the inlet valve O-ring from the inlet valve housing. Clean or replace and lubricate the O-ring with a light household oil.
6. Set the inlet valve O-ring back into the housing, and set the inlet valve on top of it.
7. Replace inlet fitting into the housing. Tighten with the inlet valve tool and ratchet.
8. Replace the seal. Place the inlet sleeve O-ring onto the inlet valve fitting, and replace the inlet sleeve by twisting it clockwise.
9. Replace the hopper.



Replacing the Outlet Valve

Replacement of the outlet valve may be necessary if your spray performance remains poor after having performed all the steps contained in the Spraying Troubleshooting section of this manual. Replacement valves are available by calling customer service (1-800-328-8251).

1. Unscrew the outlet valve from the outlet valve housing using an adjustable wrench.
2. Inspect the inside of the outlet valve housing (a). Clean any accumulated paint.
3. Replace with a new outlet valve. Tighten into outlet valve housing with an adjustable wrench.



Troubleshooting



Before servicing, always release system pressure by following Pressure relief procedure (page 7).

Problem

A. The sprayer does not start.

Cause

1. The sprayer is not plugged in.
2. The ON/OFF switch is set to OFF.
3. The sprayer shuts off while still under pressure.
4. No voltage is coming from the wall plug.
5. The extension cord is damaged or has too low a capacity.
6. There is a problem with the motor.

B. The sprayer starts but does not draw in paint when the PRIME/SPRAY knob is set to PRIME.

1. The unit will not prime properly or has lost prime.
2. The hopper is empty.
3. The unit is not on level ground.
4. The inlet filter is clogged.
5. The inlet or outlet valve is stuck.
6. The inlet valve is worn or damaged.
7. The PRIME/SPRAY valve is plugged.

C. The sprayer draws up paint but the pressure drops when the gun is triggered.

1. The spray tip is worn.
2. The inlet filter is clogged.
3. The gun filter or spray tip is plugged.
4. The paint is too heavy or coarse.
5. The outlet valve assembly is dirty or worn.
6. The inlet valve assembly is damaged or worn.

D. The PRIME/SPRAY valve is on SPRAY and there is flow through the return tube.

1. The PRIME/SPRAY valve is dirty or worn.

E. The spray gun leaks.

1. Internal parts of the gun are worn or dirty.

F. The tip assembly leaks.

1. The tip was assembled incorrectly.
2. A seal is worn.

G. The spray gun will not spray.

1. The spray tip or the gun filter is plugged.
2. The spray tip is in the CLEAN position.
3. PRIME/SPRAY knob not set on SPRAY.

H. The paint pattern is tailing.

1. The gun, the tip, or the inlet filter is plugged.
2. The tip is worn.
3. The paint is too thick.
4. Pressure loss.

Solution

1. Plug the sprayer in.
2. Turn the ON/OFF switch to ON.
3. Motor will cycle ON and OFF while spraying as it needs pressure. This is normal. Resume painting.
4. Properly test the power supply voltage.
5. Replace the extension cord.
6. Take sprayer to Wagner Authorized Service Center.

1. Try to prime the unit again.
2. Refill the hopper.
3. Relocate unit to level ground.
4. Clean the inlet filter.
5. Clean the inlet and outlet valves and replace any worn parts.* Inlet may be stuck from old paint. Remove inlet filter and insert inlet valve pusher tool into inlet valve.
6. Replace the inlet valve.*
7. Take sprayer to Wagner Authorized Service Center.

1. Replace the spray tip with a new tip.**
2. Clean the inlet filter.
3. Clean or replace the proper filter. Always keep extra filters on hand.
4. Thin or strain the paint.
5. Clean or replace the outlet valve assembly.*
6. Replace the inlet valve.*

1. Take sprayer to Wagner Authorized Service Center.

1. Take the sprayer to a Wagner Authorized Service Center.

1. Check the tip assembly and assemble properly.
2. Replace the seal.*

1. Clean the spray tip or gun filter. Review **Unclogging the Spray Tip**.
2. Put the tip in the SPRAY position.
3. Turn the PRIME/SPRAY knob to SPRAY.

1. Clean the filters and strain the paint.
2. Replace the spray tip.
3. Thin the paint.
4. Refer to Causes and Solutions for problem C.

* Special repair kits with instructions are available for these procedures. Refer to the **Maintenance** section of this manual for a list of the kits and their part numbers.

** Additional parts are available for this procedure. Refer to the **Accessories (page 55)** section of this manual for a list of the parts and their part numbers.

Daily Maintenance

The only daily maintenance necessary is thorough cleaning. Follow the cleaning procedures in this manual.

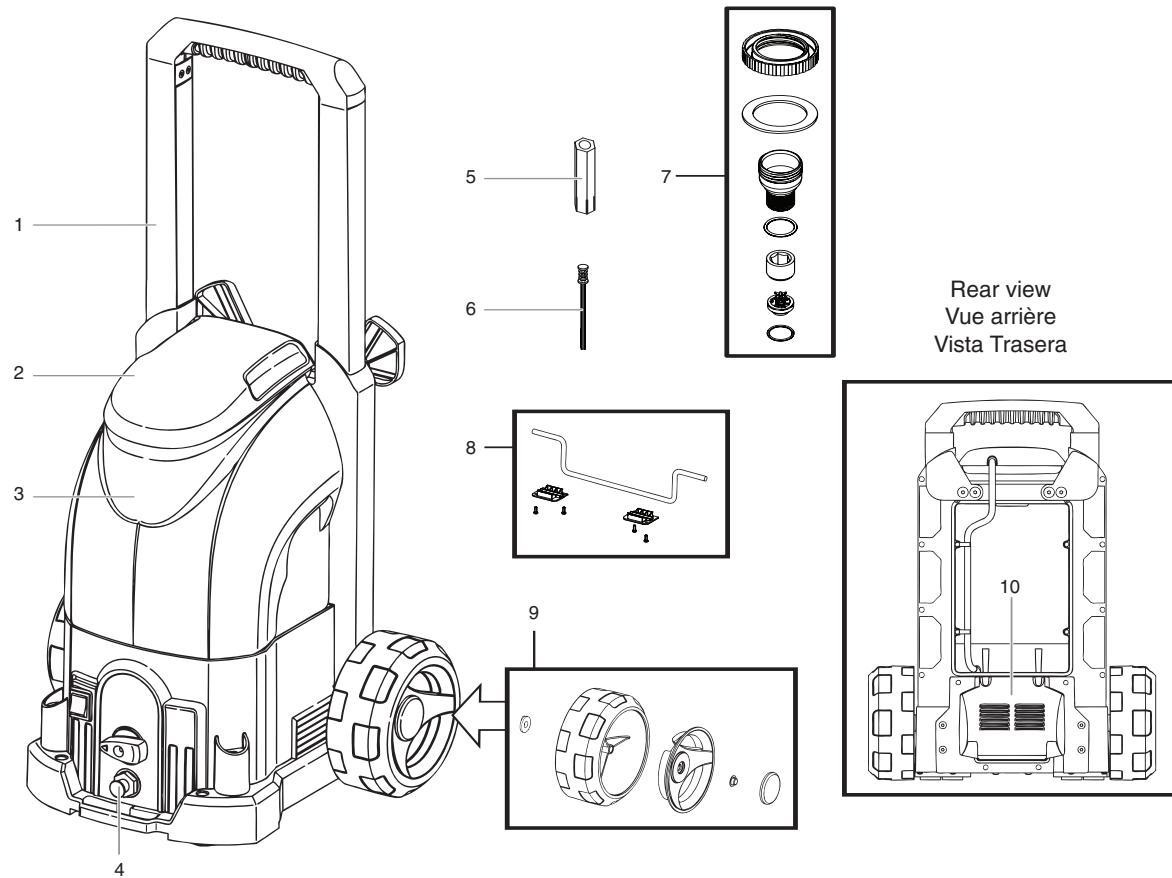
Extended Maintenance

Some pump parts eventually wear out from use and must be replaced. The following is a list of available repair kits. Pump performance is the only reliable indicator of when to replace wear parts. Refer to the Troubleshooting section for more information on when to use these kits.

Kit Part #	Description
0515939	Inlet valve seal kit
0515940	Outlet valve kit
0501014	Saddle seat / seal kit

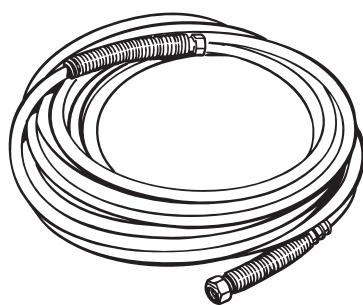
Parts List • Liste de pièces • Lista de piezas

Sprayer • Pulvérisateur • Rociador



Item Article Articulo	Part No. Nº de pièce Pieza No.	English - Description	Français - Description	Español - Descripción	Quantity Quantité Cantidad
1)	0515530	Handle	Poignée	Mango	1
2)	0515500	Hopper lid	Couvercle de la trémie	Tapa de la tolva	1
3)	0515295	Hopper	Trémie	Tolva	1
4)	0515940	Outlet valve kit	Trousse avec soupape de sortie	Juego de válvula de salida	
5)	0504220	Inlet valve / push nut tool	Outil pour écrou capuchon/ soupape d'entrée	Herramienta la válvula de entrada y las tuercas de empuje	1
6)	0515646	Inlet valve pusher tool	Poussoir pour soupape d'entrée	Herramienta impulsora de válvula de entrada	1
7)	0515939	Inlet valve replacement kit	Trousse avec soupape d'entrée de recharge	Juego de repuesto de válvula de entrada	1
8)	0515938	Axle kit	Trousse avec axe	Juego de eje	1
9)	0515937	Wheel assembly kit	Trousse d'assemblage de la roue	Juego de ensamblaje de rueda	2
10)	0515878	Warning label	Étiquette d'avertissement	Etiqueta de advertencia	1

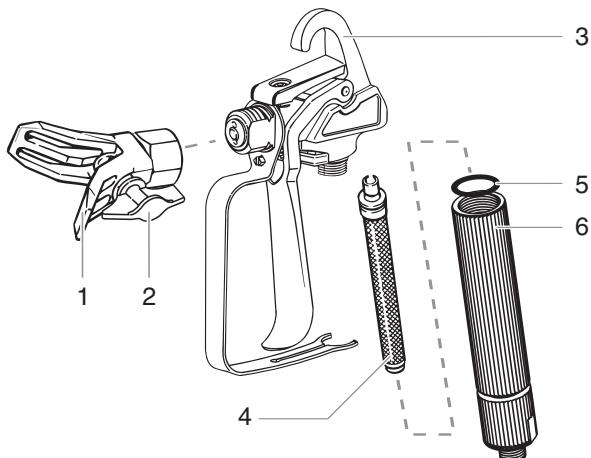
Spray hose • Flexible • Manguera



1)	0515264	25' spray hose	Flexible de pulvérisation de 7,6 m	Manguera de rociadora de 25 pies	1
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Parts List • Liste de pièces • Lista de piezas

Spray Gun • Pistolet • Pistola



Item Article Articulo	Part No. Nº de pièce Pieza No.	English - Description	Français - Description	Español - Descripción	Quantity Quantite Cantidad
1)	0501011	Guard assembly	Protège-embout	Ensamblaje de protección	1
2)	0501415	Tip, 415	Embout, 415	Boquilla, 415	1
3)	0515188	Complete gun assembly	Pistolet et ses composants	Ensamblaje de la pistola	1
4)	0154675	Filter, 100 mesh (yellow, 2 pack)	Filtre, maille 100 (jaune, trousse de 2)	Filtro, malla 100 (amarillo, juego de 2)	
5)	0515228	Seal	Joint d'étanchéité	Sello	1
6)	0515227	Filter housing	Logement de filtre	Alojamiento	1

Optional Accessories • Accessoires Optionnel • Accesorios Opcional

Part No. Nº de pièce Pieza No.	English - Description	Français - Description	Español - Descripción
0515264	25' spray hose	25' flexible de pulvérisation	25' manguera del rociador
0516913	Separating oil	Huile séparatrice	Lubricante de empaques
0512130W	Tip extension, 12"	Rallonge d'embout, 30,5 cm	Extensión de la boquilla, 12"
0512131W	Tip extension, 24"	Rallonge d'embout, 61,0 cm	Extensión de la boquilla, 24"
0501411	411 Trade spray tip	Embout de pulvérisation, 411	Boquilla rociadora 411
0501413	413 Trade spray tip	Embout de pulvérisation, 413	Boquilla rociadora 413
0501415	415 Trade spray tip	Embout de pulvérisation, 415	Boquilla rociadora 415
0501121	515 Trade spray tip	Embout de pulvérisation, 515	Boquilla rociadora 515
0515902	Power Roller Gun Attachment	Rouleau électrique, accessoire pour pistolet	Aditamento de la pistola del rodillo automático
0279109L	Anti-seize compound	Composé antigrippage	Compuesto antiatascos
0154675	Yellow gun filter (2 pack)	Filtre de pistolet jaune (2)	Filtro de pistola amarillo (2)
0279109	Pump Saver Plus Protector (lubricant)	Lubrifiant Pump Saver Plus Protector	Protector Pump Saver Plus (lubricante)

Warranty • Garantie • Garantía

LIMITED WARRANTY AIRLESS PAINT SPRAY EQUIPMENT

This product, manufactured by Wagner Spray Tech Corporation (Wagner), is warranted to the original retail purchaser against defects in material and workmanship for one year from date of purchase.

This warranty does not cover damage resulting from improper use, accidents, user's negligence or normal wear. This warranty does not cover any defects or damages caused by service or repair performed by anyone other than a Wagner Authorized Service Center. This warranty does not apply to accessories.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO ONE YEAR FROM DATE OF PURCHASE.

WAGNER SHALL NOT IN ANY EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, WHETHER FROM BREACH OF THIS WARRANTY OR ANY OTHER REASON.

If any product is defective in material and/or workmanship during the applicable warranty period, return it with proof of purchase, transportation prepaid to any Wagner Authorized Service Center. (Service Center listing is enclosed with this product.) Wagner's Authorized Service Center will either repair or replace the product (at Wagner's option) and return it to you, postage prepaid.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

GARANTIE LIMITÉE MATÉRIEL DE PULVÉRISATION DE PEINTURE SANS AIR

Ce produit, fabriqué par Wagner Spray Tech Corporation (Wagner), est garanti, au bénéfice de l'acheteur au détail d'origine, contre tout vice de matières et toute malfaçon pour un an à compter de la date d'achat.

La présente garantie ne s'applique pas aux dégâts entraînés par une utilisation incorrecte, par la négligence de l'usager ou par l'usure normale. La présente garantie ne s'applique pas non plus aux défectuosités ou dommages résultant de l'entretien ou de la réparation que fait une personne quelconque qui ne soit pas membre d'un centre d'entretien autorisé pour les produits Wagner. La présente garantie ne s'applique pas aux accessoires.

TOUTE GARANTIE IMPLICITE DE QUALITÉ MARCHANDE OU D'ADAPTATION À UN USAGE PARTICULIER EST LIMITÉE À UNE PÉRIODE DE 30 JOURS POUR UNE UTILISATION PROFESSIONNELLE OU DE LOCATION ET D'UNE ANNÉE POUR L'UTILISATION DOMESTIQUE, À COMPTER DE LA DATE D'ACHAT.

TOUTE GARANTIE IMPLICITE DE VENDABILITÉ OU DE CONVENIENCE À UNE DESTINATION PARTICULIÈRE EST LIMITÉE À UN AN À COMPTER DE LA DATE D'ACHAT.

Si un produit est défectueux en ce qui concerne les matériaux ou l'exécution pendant la période de garantie applicable, vous devez le retourner, avec une preuve d'achat et frais de port payés, à n'importe quel centre d'entretien autorisé pour les produits Wagner. (Une liste de ces centres d'entretien est jointe à ce produit.) Le centre d'entretien autorisé pour les produits Wagner réparera ou remplacera le produit (à la discrétion de Wagner) et vous le retournera par la poste, avec frais de port payés.

CERTAINES PROVINCES INTERDISENT LES RESTRICTIONS SUR LA DURÉE D'UNE GARANTIE IMPLICITE OU L'EXCLUSION DES DOMMAGES ACCESSOIRES OU INDIRECTS. IL SE PEUT DONC QUE LA RESTRICTION ET L'EXCLUSION ÉNONCÉES CI-DESSUS NE S'APPLIQUENT PAS À VOUS.
LE PRÉSENTE GARANTIE VOUS ACCORDE DES DROITS JURIDIQUES SPÉCIFIQUES, ET VOUS AVEZ PEUT-ÊTRE D'AUTRES DROITS, QUI PEUVENT VARIER D'UNE PROVINCE À L'AUTRE.

GARANTÍA LIMITADA EQUIPO DE ATOMIZACIÓN DE PINTURA SIN AIRE

Este producto, fabricado por Wagner Spray Tech Corporation (Wagner), está garantizado ante el comprador original contra defectos de materiales y mano de obra durante un año contado a partir de la fecha de compra.

Esta garantía no cubre los daños que sean resultado de un uso inapropiado, accidentes, negligencia del usuario o un desgaste normal. Esta garantía no cubre ningún defecto o daño que haya sido causado por los servicios o reparaciones llevadas a cabo por alguien que no sea un técnico del Centro de Servicio Autorizado de Wagner. Esta garantía no es válida para ningún accesorio.

CUALQUIER GARANTIA IMPLICITA DE COMERCIALIZACION O IDONEIDAD PARA CUALQUIER PROPOSITO EN PARTICULAR QUEDA LIMITADA A UN AÑO A PARTIR DE LA FECHA DE COMPRA.

WAGNER NO SERÁ EN NINGÚN CASO RESPONSABLE DE NINGÚN DAÑO INCIDENTAL O DE CONSECUENCIA DE NINGUNA CLASE, QUE RESULTE DE VIOLAR ESTA GARANTIA O POR CUALQUIER OTRA RAZÓN.

Si algún producto llegara a tener defectos de material y/o mano de obra durante el período de validez de la garantía, devuélvalo junto con el comprobante de compra y flete previamente pagado, a cualquier Centro de Servicio Autorizado de Wagner. (La lista de Centros de Servicio viene adjunta con este producto.) El Centro de Servicio Autorizado de Wagner reparará o reemplazará el producto (según la opción de Wagner) y se lo devolverá, con porte previamente pagado.

ALGUNOS ESTADOS NO PERMITEN LIMITACIONES EN CUANTO A LA DURACIÓN DE UNA GARANTÍA IMPLÍCITA O LA EXCLUSIÓN DE DAÑOS INCIDENTALES O DE CONSECUENCIA, DE MANERA QUE LA LIMITACIÓN Y EXCLUSIÓN ANTERIORES PODRÍAN NO SER VÁLIDAS PARA USTED.
ESTA GARANTÍA LE CONCEDE DERECHOS LEGALES ESPECÍFICOS, PERO USTED PODRÍA TENER DERECHO A OTROS, LOS CUALES VARÍAN DE UN ESTADO A OTRO.

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U.S. Patent Nos. 6,981,852 6,933,634
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